0828454 - 050505

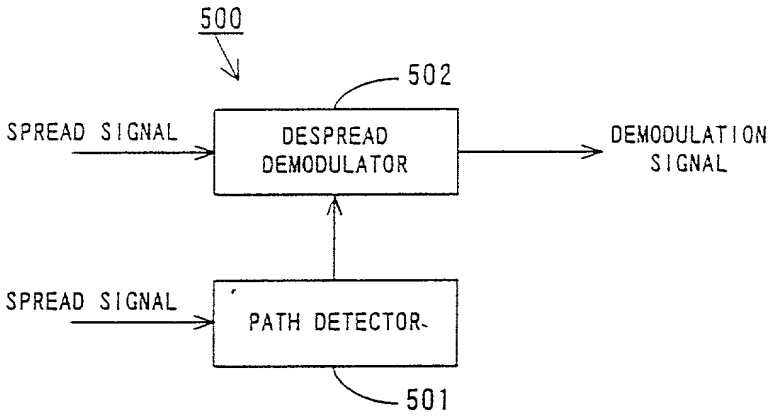


FIG. 1

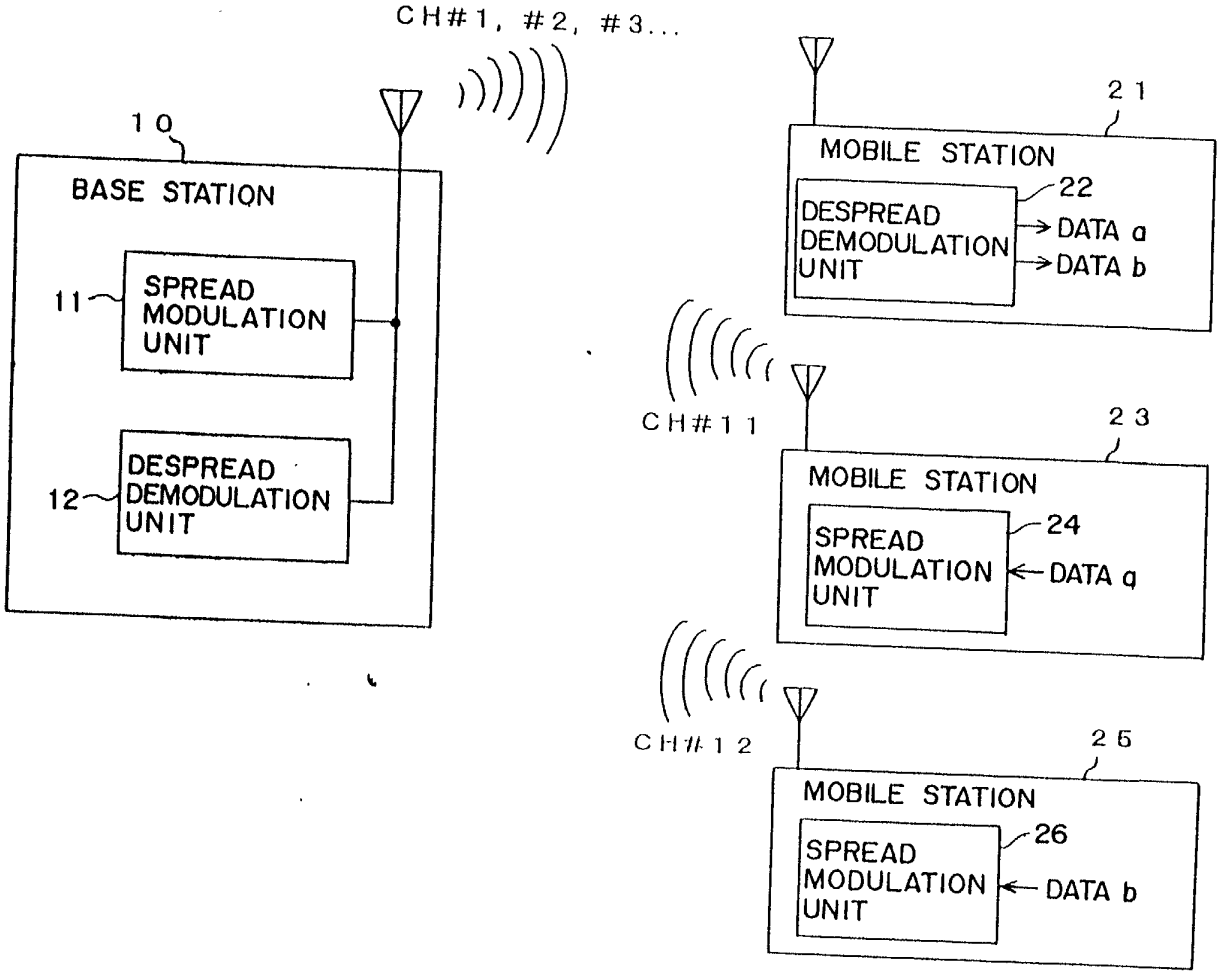

CH#1, #2, #3...
10
BASE STATION
11
SPREAD MODULATION UNIT
12
DESPREAD DEMODULATION UNIT
21
MOBILE STATION
22
DESPREAD DEMODULATION UNIT
DATA a
DATA b
CH#11
23
MOBILE STATION
24
SPREAD MODULATION UNIT
DATA a
CH#12
25
MOBILE STATION
26
SPREAD MODULATION UNIT
DATA b

FIG. 2

EP 0 852 444 A2

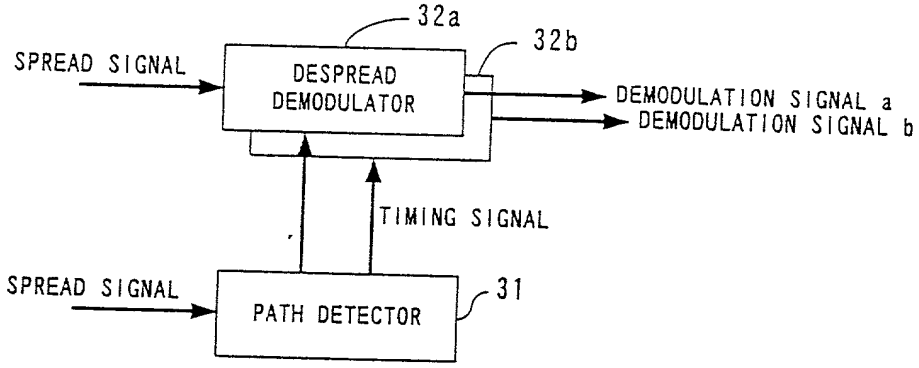


FIG. 3

EP 1 154 575 A2

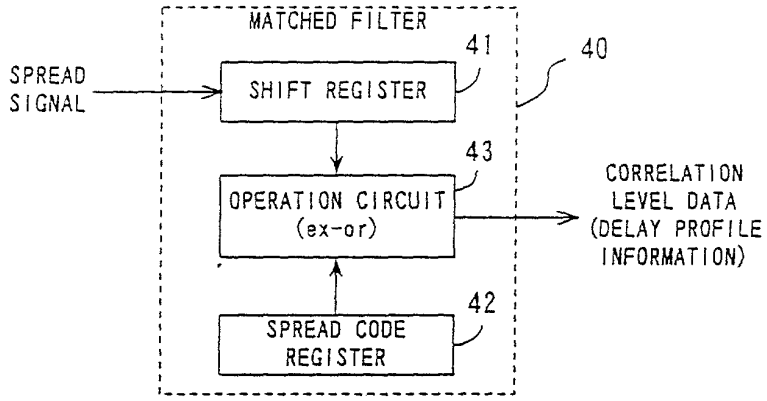


FIG. 4A

668250 "hhh22660

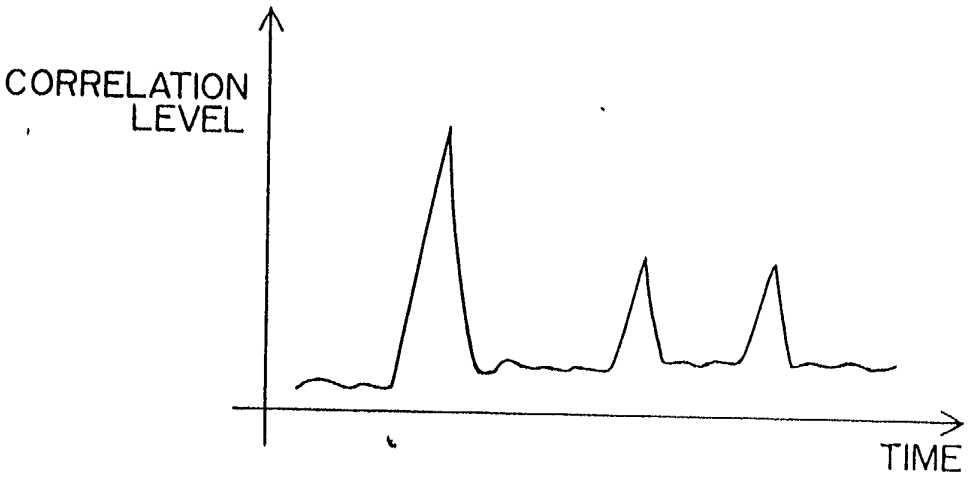


FIG. 4B

EP 0 954 105 A2

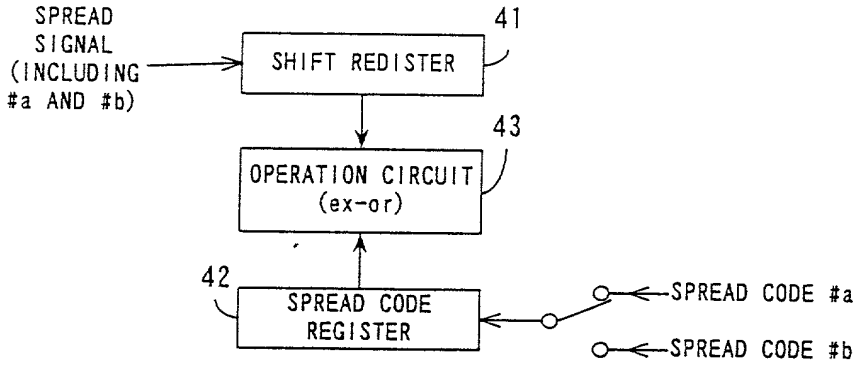


FIG. 5A

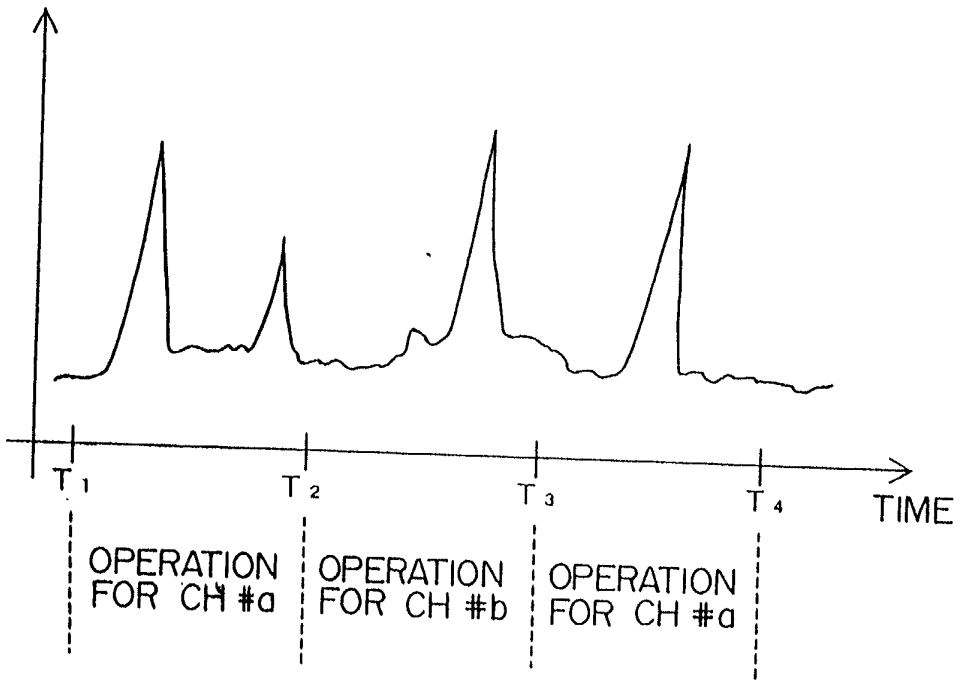

T1
T2
T3
T4
TIME
OPERATION FOR CH #a
OPERATION FOR CH #b
OPERATION FOR CH #a

FIG. 5B

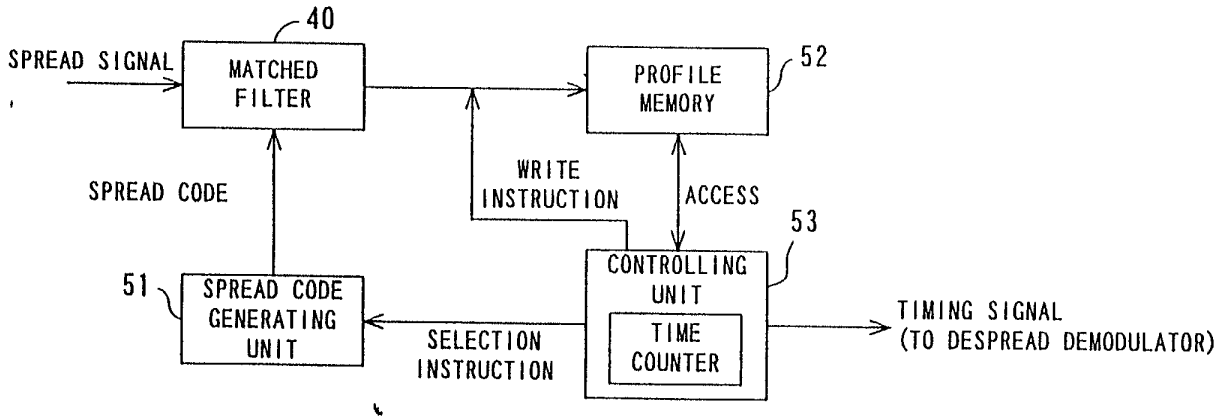

40
SPREAD SIGNAL
MATCHED FILTER
PROFILE MEMORY
52
WRITE INSTRUCTION
ACCESS
SPREAD CODE
53
CONTROLLING UNIT
TIME COUNTER
51
SPREAD CODE GENERATING UNIT
SELECTION INSTRUCTION
TIMING SIGNAL
(TO DESPREAD DEMODULATOR)

FIG. 6

ADDRESS (CORRESPONDING TO VALUE OF TIME COUNTER)	CORRELATION LEVEL DATA
00000001	13
00000010	19
00000011	27
00000100	45
⋮	⋮
01000001	4
01000010	4
⋮	⋮

FIG. 7

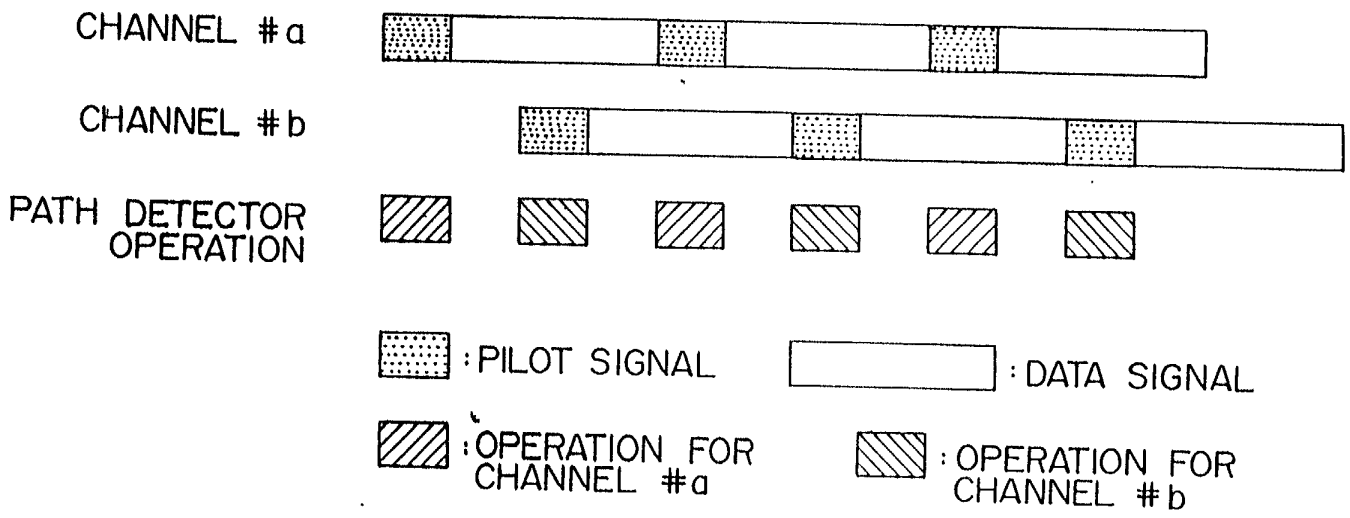

CHANNEL #a
CHANNEL #b
PATH DETECTOR OPERATION
: PILOT SIGNAL
: DATA SIGNAL
: OPERATION FOR CHANNEL #a
: OPERATION FOR CHANNEL #b

FIG. 8

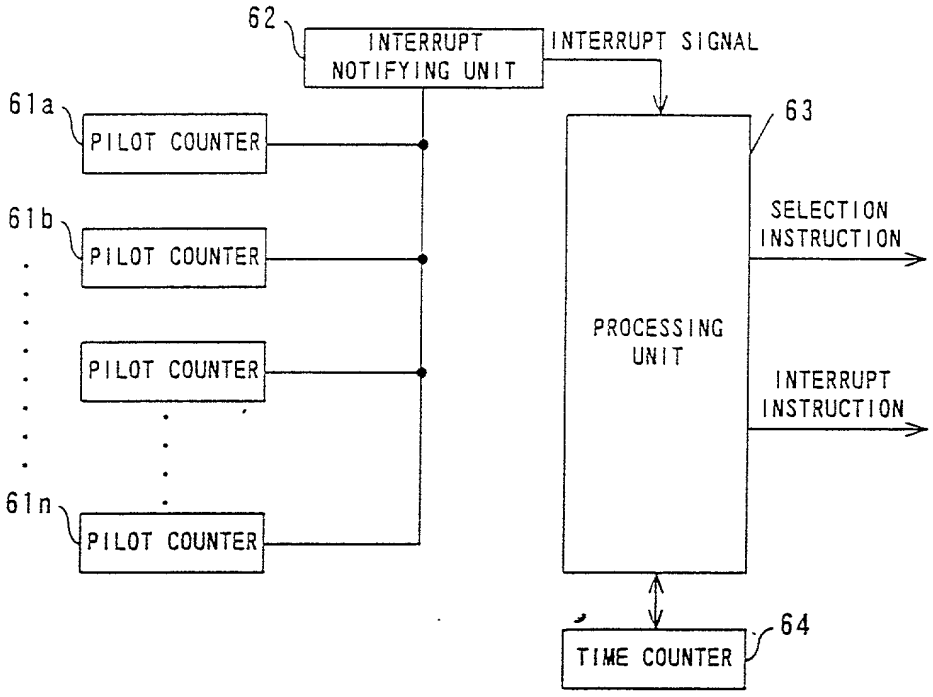

62
INTERRUPT NOTIFYING UNIT
INTERRUPT SIGNAL
61a
PILOT COUNTER
61b
PILOT COUNTER
PILOT COUNTER
61n
PILOT COUNTER
63
PROCESSING UNIT
SELECTION INSTRUCTION
INTERRUPT INSTRUCTION
64
TIME COUNTER

FIG. 9

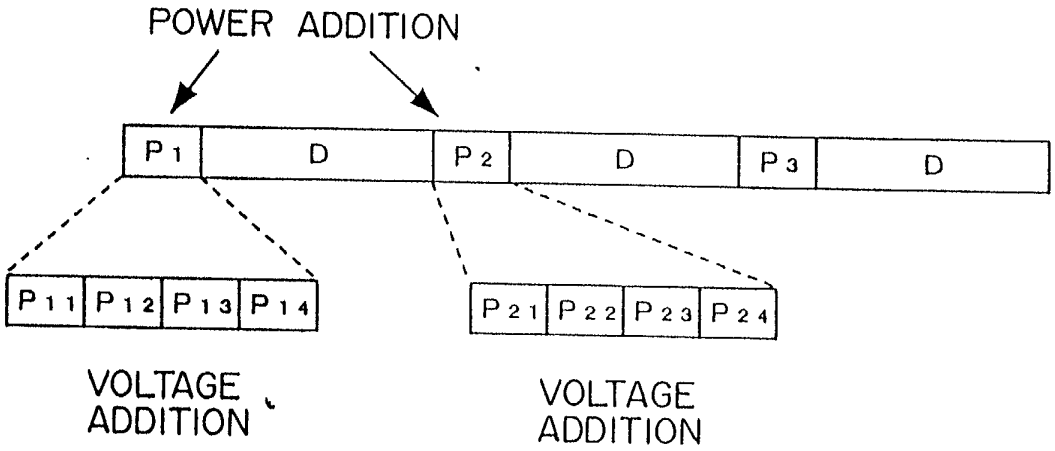

POWER ADDITION
P1
D
P2
D
P3
D
P11
P12
P13
P14
P21
P22
P23
P24
VOLTAGE ADDITION
VOLTAGE ADDITION

FIG. 10

6682501 thh2560

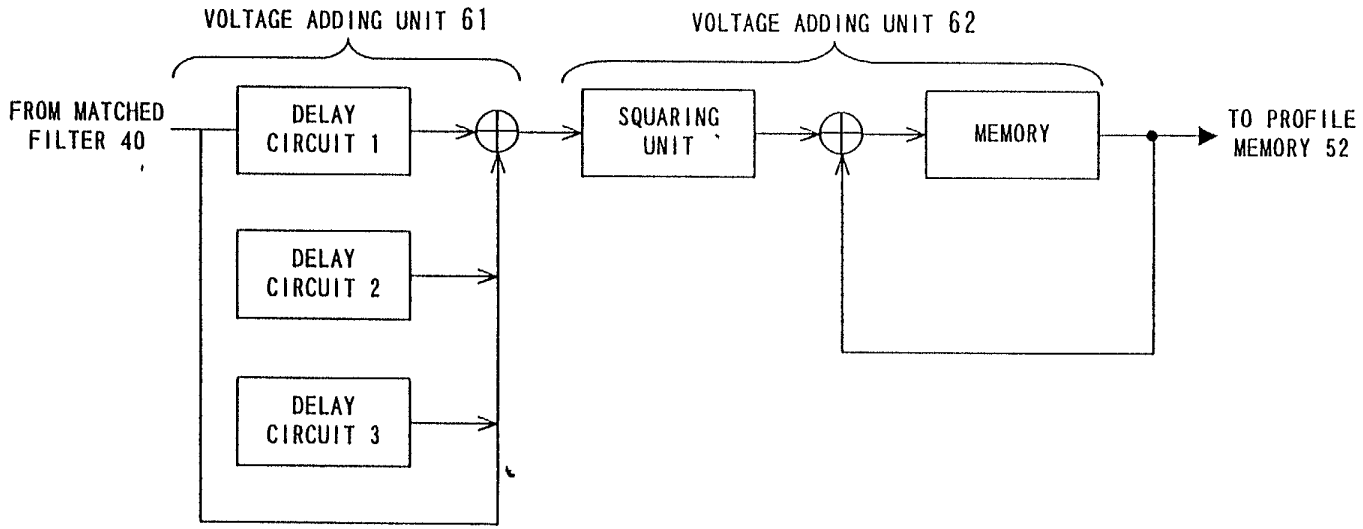


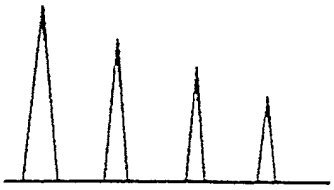
FIG. 11

COMMUNICATION CHANNEL	PRIORITY LEVEL
# a	4
# b	3
# c	3
⋮	⋮
# n	2

FIG. 12

0 922 944 A2 | 0 922 944 A3

DELAY PROFILE CHARACTERISTIC AT TIME T_1



DELAY PROFILE CHARACTERISTIC AT TIME T_2

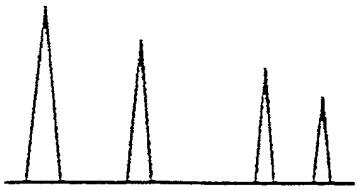


FIG. 13

US 5,515,369

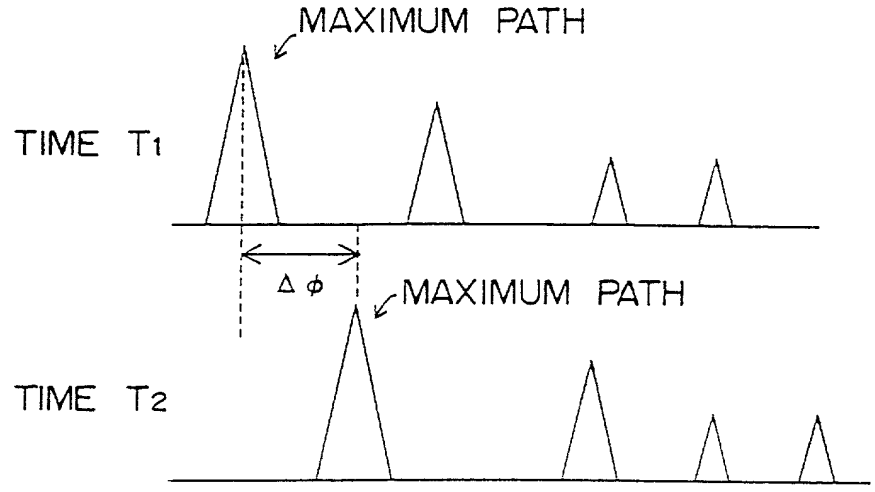


FIG. 14A

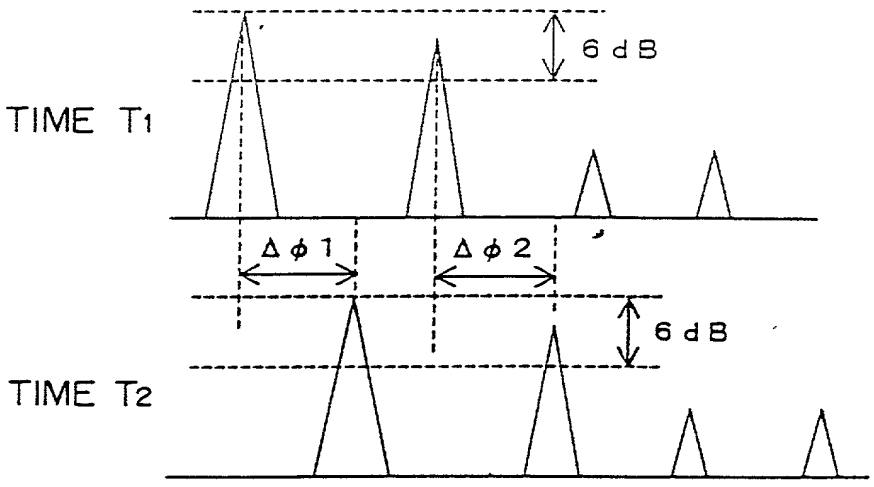


FIG. 14B

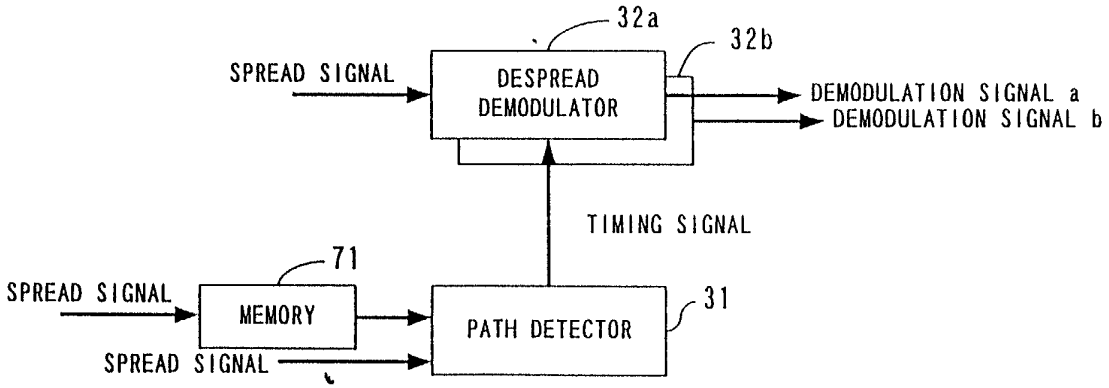

32a
32b
SPREAD SIGNAL
DESPREAD DEMODULATOR
DEMODULATION SIGNAL a
DEMODULATION SIGNAL b
TIMING SIGNAL
71
SPREAD SIGNAL
MEMORY
PATH DETECTOR
31
SPREAD SIGNAL

FIG. 15

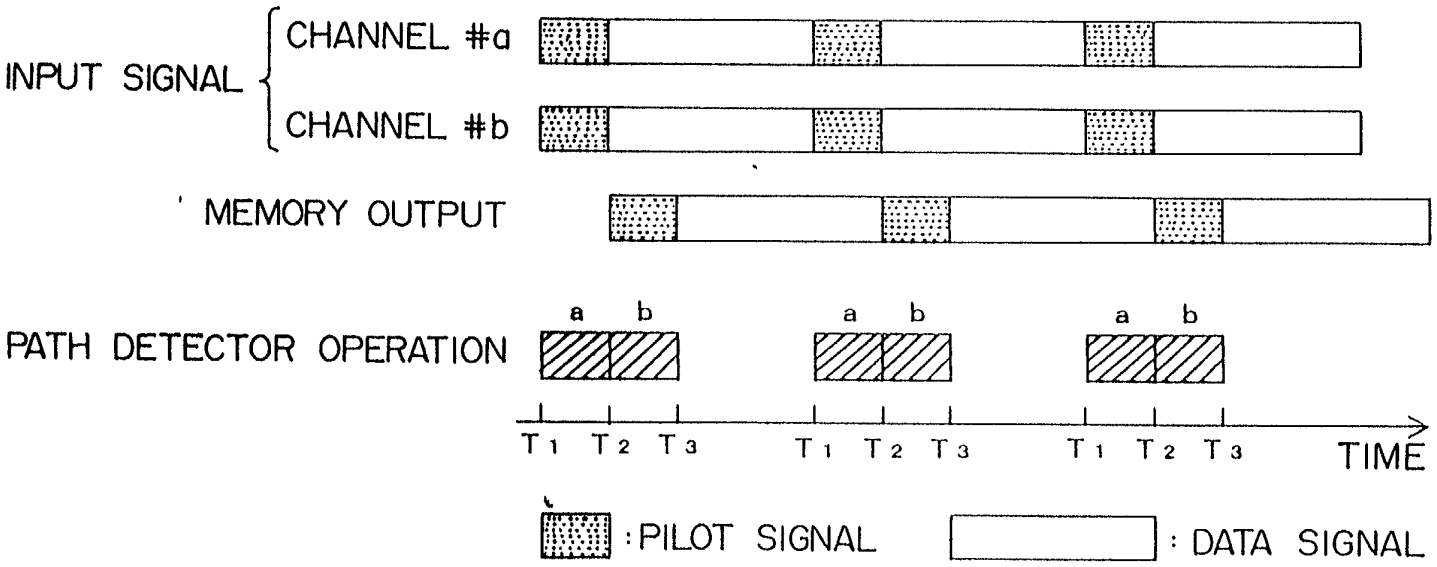

INPUT SIGNAL
CHANNEL #a
CHANNEL #b
MEMORY OUTPUT
PATH DETECTOR OPERATION
a
b
a
b
a
b
T1 T2 T3
T1 T2 T3
T1 T2 T3
TIME
: PILOT SIGNAL
: DATA SIGNAL

FIG. 16

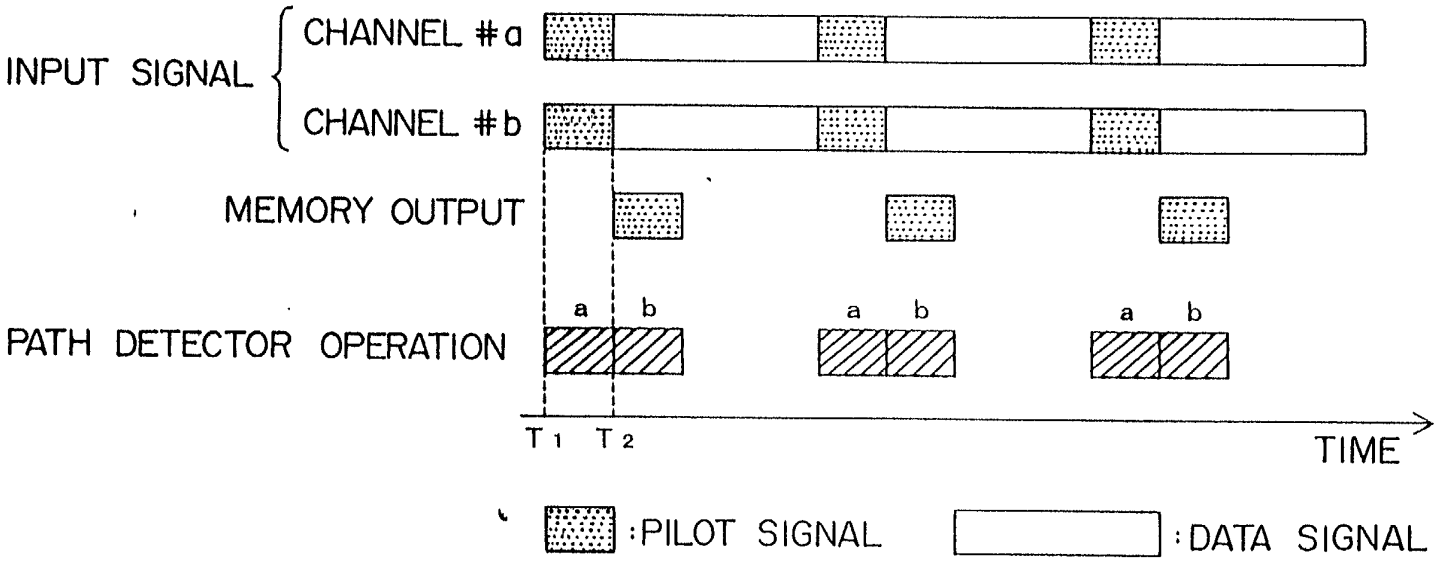

INPUT SIGNAL
CHANNEL #a
CHANNEL #b
MEMORY OUTPUT
PATH DETECTOR OPERATION
a
b
a
b
a
b
T1
T2
TIME
:PILOT SIGNAL
:DATA SIGNAL

FIG. 17

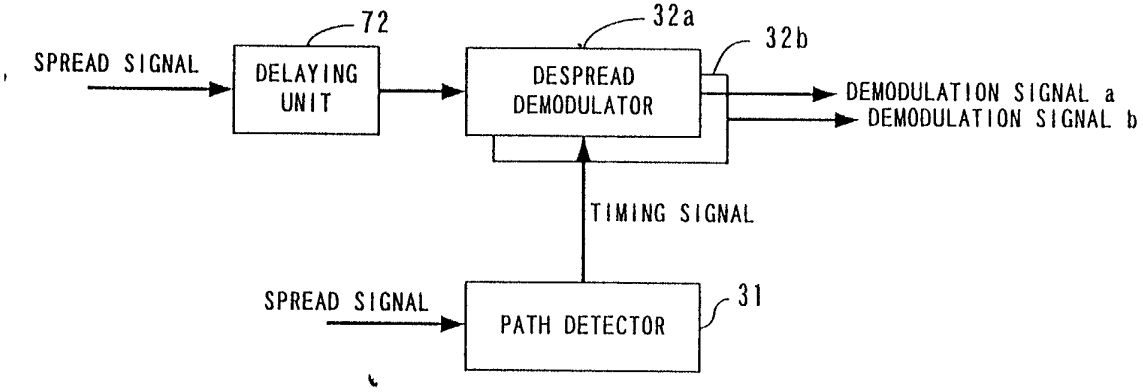

72
32a
32b
SPREAD SIGNAL
DELAYING UNIT
DESPREAD DEMODULATOR
DEMODULATION SIGNAL a
DEMODULATION SIGNAL b
TIMING SIGNAL
SPREAD SIGNAL
PATH DETECTOR
31

FIG. 18

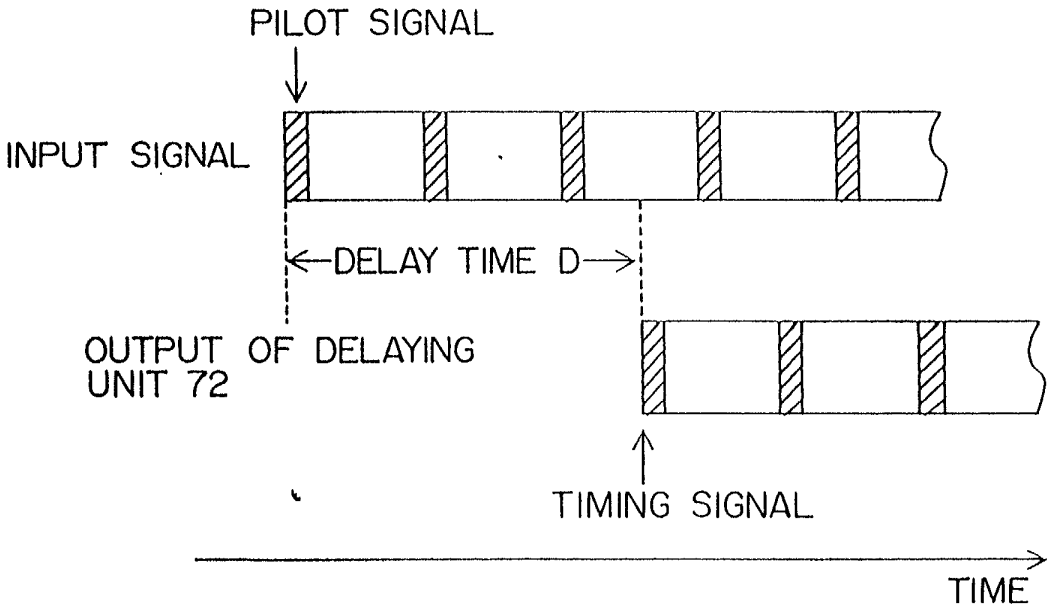

PILOT SIGNAL
INPUT SIGNAL
DELAY TIME D
OUTPUT OF DELAYING UNIT 72
TIMING SIGNAL
TIME

FIG. 19

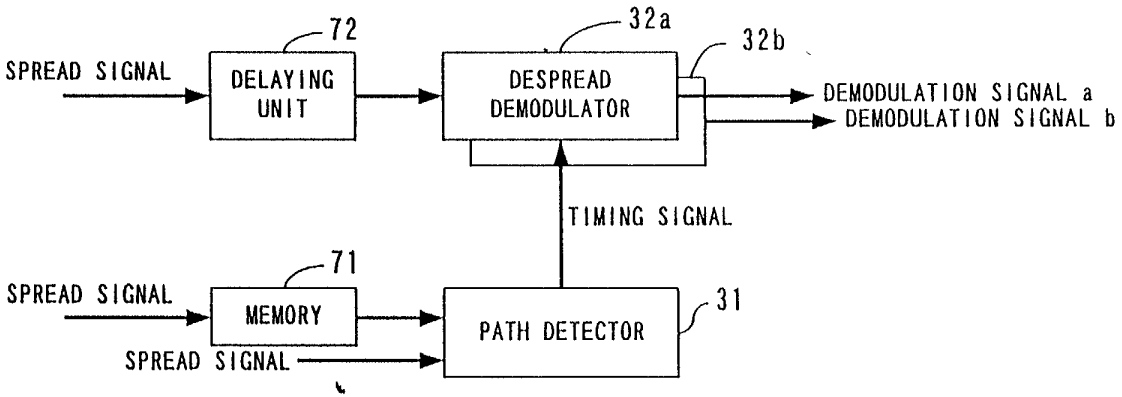

72
32a
32b
SPREAD SIGNAL
DELAYING UNIT
DESPREAD DEMODULATOR
DEMODULATION SIGNAL a
DEMODULATION SIGNAL b
TIMING SIGNAL
71
SPREAD SIGNAL
MEMORY
PATH DETECTOR
31
SPREAD SIGNAL

FIG. 20

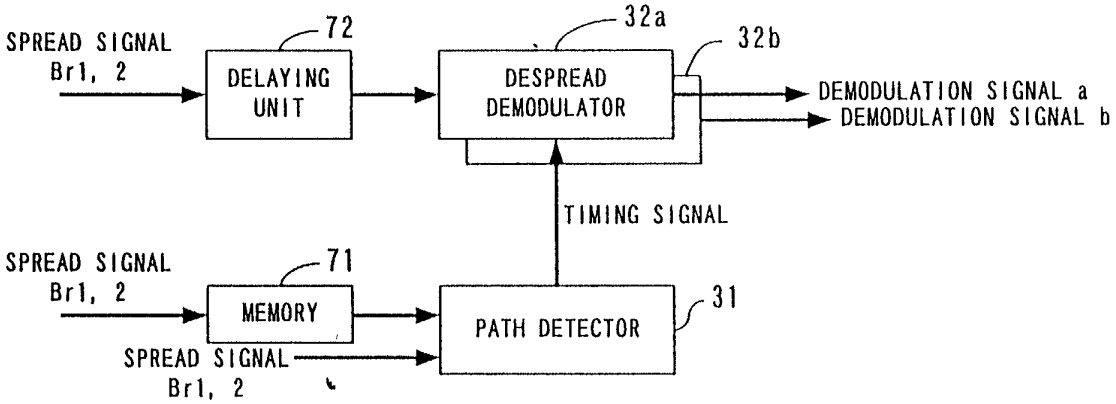

SPREAD SIGNAL
Br1, 2
72
DELAYING UNIT
32a
32b
DESPREAD DEMODULATOR
DEMODULATION SIGNAL a
DEMODULATION SIGNAL b
TIMING SIGNAL
SPREAD SIGNAL
Br1, 2
71
MEMORY
PATH DETECTOR
31
SPREAD SIGNAL
Br1, 2

FIG. 21

6682250 "tttt22E60

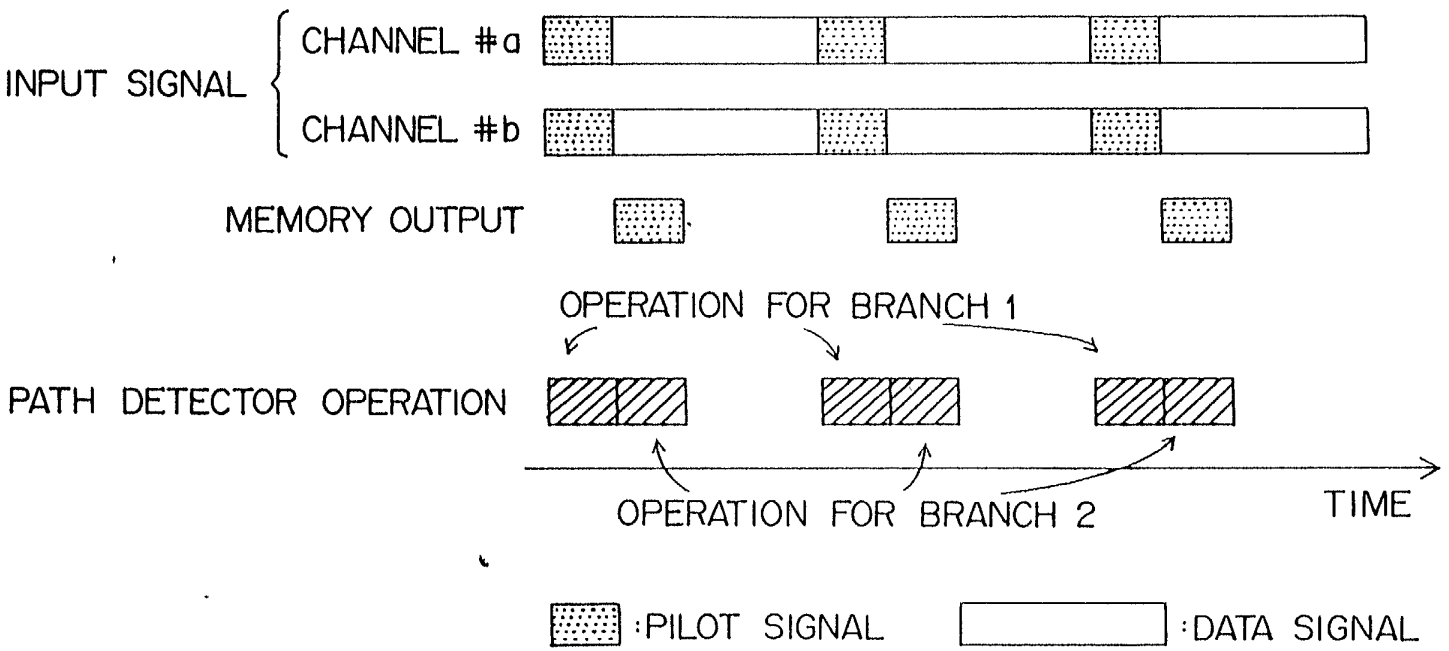


FIG. 22

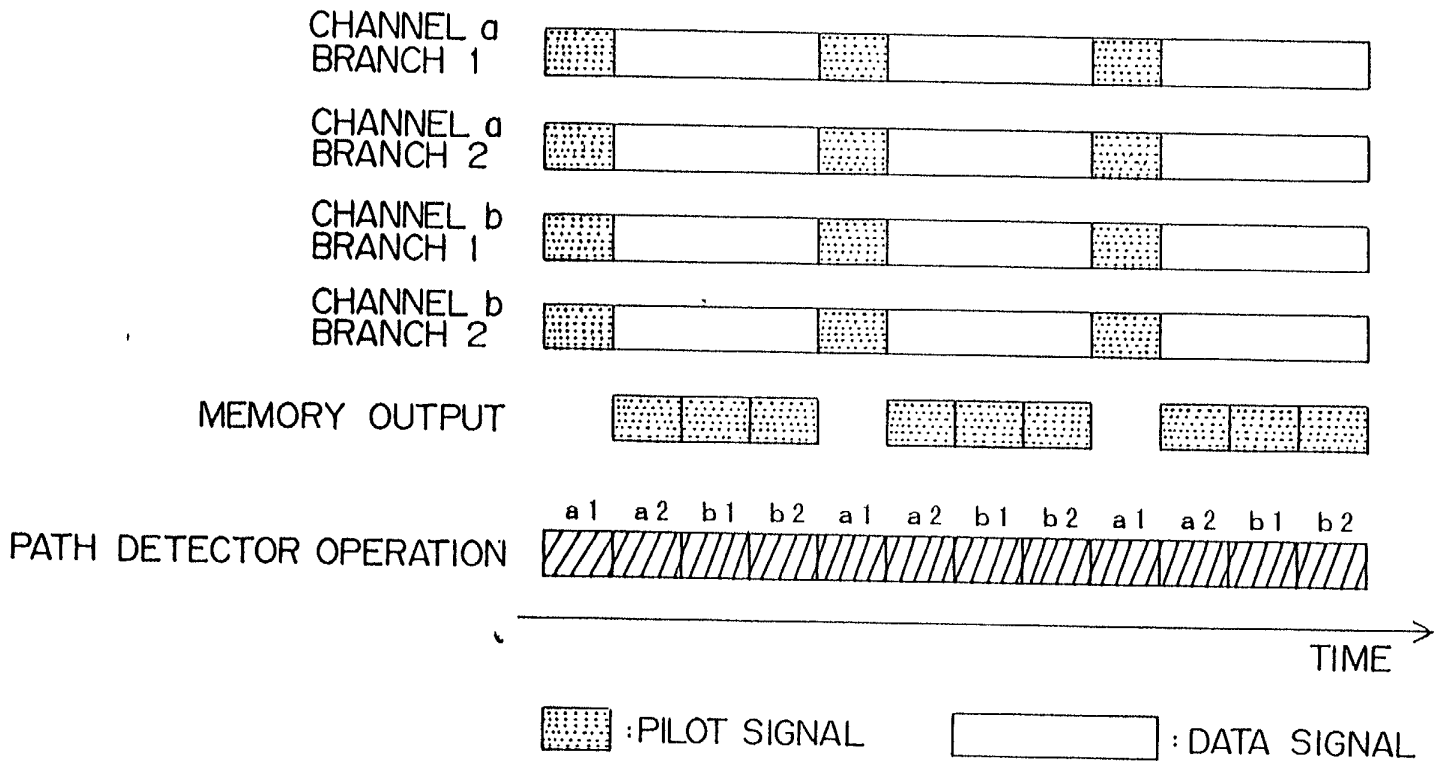

CHANNEL a BRANCH 1
CHANNEL a BRANCH 2
CHANNEL b BRANCH 1
CHANNEL b BRANCH 2
MEMORY OUTPUT
PATH DETECTOR OPERATION
a1 a2 b1 b2 a1 a2 b1 b2 a1 a2 b1 b2
TIME
: PILOT SIGNAL
: DATA SIGNAL

FIG. 23